



Town of Chapel Hill
Stormwater Management Program
Lower Booker Creek Subwatershed Study UPDATE

Meeting Summary
Public Meeting 2, Session 1
June 23, 2016, 11:30 AM

Town of Chapel Hill and Consultant Attendees

Sue Burke, Stormwater Engineer, Town of Chapel Hill	Wendy Smith, Town of Chapel Hill
Tom Murray, Project Manager, WK Dickson	Kevin Nunnery, Biohabitats
Scott Sigmon, WK Dickson	Inga Kennedy, PEQ
Ebony Hagans, WK Dickson	

1. Welcome and Purpose of Meeting

Residents of the Lower Booker Creek subwatershed were invited to attend a public meeting on June 23, 2016 at the Chapel Hill public library, to receive an update on the Lower Booker Creek subwatershed study including the existing conditions findings and the proposed solutions.

Two meetings were held on the morning and afternoon of the 23rd to accommodate residents' work schedules. Each meeting began with a presentation followed by a question and answer session. Following the meeting, attendees were invited to view maps of the Lower Booker Creek subwatershed summarizing the proposed solutions and to speak with staff and consultants about any questions or concerns. Attendees were also given comments cards to provide additional written feedback and input if desired. This summary represents the morning meeting and a total of 22 persons attended.

2. Overview of PowerPoint Presentation

Tom Murray kicked off the presentation portion of the meeting and spoke on the following topics:

- Overall Agenda and Goals.
- June 2016 Progress Update.
- Public Outreach.
- Existing Conditions Evaluation.
- Alternatives Development.

Kevin Nunnery next discussed with the group neighborhood retrofits and various screening factors. The following examples were presented:

- Streets – grass swales, bioswales, and stormwater tree pits.

- Residential Lots – rain gardens.
- Parking Lots – bioretention islands, perimeter bioretention, and bioswale/linear bioretention.
- Plazas – stormwater platers.

Tom Murray then covered the following topics:

- Multi-objective projects.
- Next steps moving forward.

A copy of this presentation can be found on the project website.

3. Verbal Questions/Comments by Participants during and following the Presentation

- **Question:** How does climate change affect rainfall predictions? Did you factor in climate change into your future rainfall events/totals? **Response:** The most current statistical rainfall model and totals provided by National Oceanic and Atmospheric Administration (NOAA) were used. There is no published rainfall data that takes into consideration future climate change for future rainfall events. (Tom Murray)
- **Question:** What year storm was the June 2013 event? **Response:** This was between a 10- and 25-year storm. (Sue Burke)
- **Question:** Please describe what you mean by an inlet? Is it what we see in the streets now? **Response:** Yes, there are several different types including open throat, grate, or a combination of the two. Our findings show that in some instances, the pipes are sized appropriately but more inlets are needed to capture the water and get it to the pipes. (Tom Murray)
- **Question:** With regards to the reductions in water surface elevations, will this be provided on the website for all the different storm events? **Response:** Yes, the summary tables containing this information can be added to the website. (Tom Murray)
- **Question:** Are you still accepting responses to the survey/questionnaire? **Response:** The survey is closed but we still welcome all feedback. The Eastwood Lake subwatershed surveys will be going out soon.
- **Question:** The box culvert at Fordham Boulevard and Elliott, is it capable of accept flow or is it impacted by downstream conditions? How far down is the chokepoint...the Country Club? **Response:** This culvert may have been designed anticipating high downstream water surface elevations. The downstream constrictions are along the downstream receiving channel along Little Creek. It does not go all the way back to the Country Club.
- **Question:** Is the OWASA aerial sewer crossing a flow impediment? Was it considered in modeling? It clogs on a regular basis especially during larger storms. **Response:** The hydraulic modeling does not include any blockages. The impacts of the crossing on flow are insignificant. (Tom Murray)
- **Question:** Should OWASA consider converting this crossing to an inverted siphon? Would this help? **Response:** Most likely not, but we can coordinate with OWASA to see if they have considered this for any future capital projects. (Tom Murray)

- **Question:** What is the life expectancy for pipes? **Response:** It varies on a soil acidity, installation method, coating. On average, the manufacturer's recommended general design life expectancy is 30-50 years for corrugated metal pipe and 75-100 years for reinforced concrete pipe. (Tom Murray)
- **Question:** Has recommendations been provided to the Town regarding road extension across 15-501 into wetlands? **Response:** Not currently, the alignment has not been finalized. (Tom Murray) The Council has just provided the go ahead to get started on 30% design plans. (Sue Burke)
- **Question:** At the lower end of the watershed, what can be done to help residents and lower water surface elevations? **Response:** The primary way to have reductions in water surface elevations is to evaluate improvements and potential reductions along Bolin Creek and Little Creek. Unfortunately, it is not part of the current study. (Tom Murray)
- **Question:** Have you completed cost estimates for these solutions? **Response:** No, cost estimates will be completed as part of the next steps moving forward. (Tom Murray)
- **Question:** Some drains in the streets are not regularly cleared by the Town or local residents and business owners. What can be done to improve this? **Response:** Education is critical. The Town has an education program in place. Program changes in the future could help to put more emphasis on this. (Tom Murray)